

F. VANDERVEGT

1644

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**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/852,495C**

DATE: 10/08/1999
TIME: 11:12:30

INPUT SET: S33597.raw

P#28

This Raw Listing contains the General Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

3 (1) General Information:

4 (i) APPLICANT: Ruddy, David A.
5 Wolff, Roger K.

6 (ii) TITLE OF INVENTION: POLYMORPHISMS IN THE REGION
7 HEMOCHROMATOSIS GENE

8 (iii) NUMBER OF SEQUENCES: 26

9 (iv) CORRESPONDENCE ADDRESS:
10 (A) ADDRESSEE: Pennie & Edmonds, LLP
11 (B) STREET: 1155 Avenue of the Americas
12 (C) CITY: New York
13 (D) STATE: NY
14 (E) COUNTRY: USA
15 (F) ZIP: 10036-2811

16 (v) COMPUTER READABLE FORM:
17 (A) MEDIUM TYPE: Floppy disk
18 (B) COMPUTER: IBM PC compatible
19 (C) OPERATING SYSTEM: Windows
20 (D) SOFTWARE: FastSEQ for Windows Version 2.0b

21 (vi) CURRENT APPLICATION DATA:
22 (A) APPLICATION NUMBER: 08/852,495
23 (B) FILING DATE: 07-MAY-1997
24 (C) CLASSIFICATION:

25 (vii) PRIOR APPLICATION DATA:
26 (A) APPLICATION NUMBER:
27 (B) FILING DATE:

28 (viii) ATTORNEY/AGENT INFORMATION:
29 (A) NAME: Poissant, Brian M
30 (B) REGISTRATION NUMBER: 28,462
31 (C) REFERENCE/DOCKET NUMBER: 8907-0057-999

32 (ix) TELECOMMUNICATION INFORMATION:
33 (A) TELEPHONE: 650-493-4935
34 (B) TELEFAX: 650-493-5556
35 (C) TELEX: 66141 PENNIE

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47 (2) INFORMATION FOR SEQ ID NO:1:

48

49 (i) SEQUENCE CHARACTERISTICS:

50 (A) LENGTH: 235033 base pairs
51 (B) TYPE: nucleic acid
52 (C) STRANDEDNESS: single
53 (D) TOPOLOGY: linear

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59 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

60

61 CACACACACA CACACACACA CACACACACA CACACAAATG AGGTATATAA AGGGTCTCCT	60
62 AAAATGTCAT CTGATATTTG TTATTCATA TTCTCAGATT TTTAATCCAT TTAGGTAGGT	120
63 CTATTTAGA TAGCCTTGTC TGAAACAGAG CTGGGACCTG ATGAGTGAAA ATGAGCTCAC	180
64 CAGAAGAAAA ATCAAAACAGG CATTTCAGAG ATTGAGGCCA AGAAGTTAAA TGTCTTAAAT	240
65 GGGCAGAGCT TAGCTGCTTG ATGTGAAAAG AGACCAGCGT GGCTGGAACA GCAAAGGAGA	300
66 ACAGCAGAAG AGGTGAACAG AGGCCAGAGA TGGTCACTGA GTGGGCCCTT AAGTCATGGT	360
67 AAGGAGTATG GAGAATGAAT TATTGCATGT ATTGAATATG TAGGTGACGT GACTCACAGA	420
68 TACTTTGGAT TTGTAGAGAT GAAGGAAATG TAGCAAGTGA CACTCTTAGA ATGTTGATTT	480
69 GAGTAAATGG TAGTGTCACT TATTGAACTG GGGAGAACTG GAAGGGATAA CAGGCTTAAG	540
70 GAGCACGTTT ATTCCCTGTGT CTTGGAAGTG TTTAGGGTGA AAGACCTATT AGAGTTCTAA	600
71 ATGGAGATGT CAAGTAAAAA TGTGGCTACA CACATTTGCA TTTCAGAAAA AAGGTCAGGC	660
72 TGGAGATGTA AAATTGGAAG TTTACTGCAT ATAGATAGTC TTTGGAACCG TAGTATTGAT	720
73 GAAGCCATTA ATGAGACAGA ACAAAAGACTA GGGACCAGAG CCAAGCTCCA AGTTTCTAAA	780
74 ATTTAGAGGA TAGTATAGTC TGGCATTTC GAGGTGAATA CTTAATAACA GAACAATTG	840
75 TTGAAGTGTAA AATTTAGAGC CCTACACTTT TAGCTCTGAC TATTAACGAA TACAGGAAAG	900
76 AATGGATATG GTTATCTGCC TGGTGTCTGT GAAATAATTT AAGCCAGGAA GAGATCCTCA	960
77 CCAGAAACTG ACTATGCTGG CAACTTGGAT CTTAGATTTC CAGCCTGCAG AATTGTTAGA	1020
78 AAATAAAATGT CTATCGTTA AGCCACCAGT CTGTAGTATT TTGTTATGGC AGTCCAAGCT	1080
79 GACTAAGTTT TGGTACCCAG GCGTGGGATG CTGCAACAAAC AAATACCTAA ACATGGGAA	1140
80 GTGGCTTTGG AAATTGGTGA TGGTAAAGG CTGGAAGAGT TTGAGGTTCA TACTAGAAAA	1200

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108 109 GTTTGAGACC AGCCTGGCCA ATATGGCGAA ACCCTGTCTC TACTAAAAAT ACAAAAATTA 1500
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121 GTTTACTGGA AAGAACTTAT AAGCAGTAAA ACTGGATATT TACCAAGAAGA GATGTCTAAG 1860
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123 CAAAGTATTG AAGGTGTGAT TTAGGTCCCTC CTTACTGCTT AAAGTGAAAT GTGAGAGGAA 1920
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125 AGAGCCGAAA TAAAGAAGGA ATTTTAAGC AAAACACAAT CAGAACCTGG AGATTTGGGA 1980
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131 CAGGGTCTGG CTATGTCATC CAGGCTGGAG TGCAGTGGCA CAATCTCAGT TCAGTGCAAC 2160
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133 CTTTGCCTTC AGGCTCAAGC AATCCTCCCA CCTCAGCCTC CTAAGTAGCT GGGACTACAT 2220
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135 GTATGCACCA CCACACCCCTG GCTAATTTT TGTTGTTGTT TATAGAGATG GGGTTTGAC 2280
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137 ATGTTGCCTA GGCTGGTCTC TAACCTCTGA GCTCAAGTGA TCTGCCCTCC TCAGTCTCCC 2340
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139 AAAGTGTGG GATTACAGGC GTGAAACACT GAGCCTAGCC TGAACAAACCA TTTGATAAAG 2400
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141 AGATAATGGG TGTGACCCAA GGATTTAATC AGCCATCTCA GCAGAAGCCA GGAAGAGAGA 2460
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145 GGAACAAAGG AAGGTTGTCG ACTTTTGAA TTCTATAGAA CAGGATCATA GAGCTACCTG 2580
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147 GCTGTCAATG TGTACTATTC TTTAAGAAAA GGAAAGACTG ACCCACCAAA GGCAACTTAC 2640
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149 AAGATCACTA GGGCTGACTC TTTGTTTTT TCTTGAGGCA GTCTCACTGT CACCCAGGCT 2700
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151 GTAGGGCAAT GGTGTGATCT CAGCTCACTG CAATCTCCAC CTCCAGGTT CAAGGGATTG 2760
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154	AGCGCTCCTG CCACCACTTG CCCAGCTAAT TTTGTATTT TTAGTAGAGA TGGGGTTCA	2880
155	CTATGTTGGC CAGGCTAGTT TGGAACTCCT GACCTCCAGT GATCCATTCT CATTGGCCTC	2940
156	CCAAAGTGCT GGGATTACAG GCAGGAGCCG CCAGGGCTGC CACTTTGATG TCAGACTCAG	3000
157	AGAGTACAGA TGGGATAGGG TGGGGGTGGG AACATGTAGT CAAGGCTGAC TCTACCTGTT	3060
158	TCAAAGATGC CCTGCAGAAC TGTGTGGAG TCTCTCACAG ATGGCTGCCT GGCTGGGACC	3120
159	CCACCAAACG GAAAGACCGA GACTTCAGGC AGGGCAGATG GAGTAGGCC ACTACAGAGC	3180
160	CAGAGGTGAC ACTGAGACAC CACTGGCCT GGAAATCAGG GCATCAAGCC AAAGAGGGTT	3240
161	TTTCTTAAGA CCTAACAGAA TTTGCCTTGC CAGGTTTGG ACTTGATTAG GACACATTAC	3300
162	ACCTTCCTTC TTTCCTATTT CTCCATTTC TAATGGGAAT GTCTATTATG CCTGTTTCAC	3360
163	CATTGTACCT TAGAACCATG TAACATTCT GGTTTCACAC GTTCAAAGCT GGAAAGGAAT	3420
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165	AGATGACACT TTGAACCTTA GAATTGATGC TAGAATGAGT TAAGACTTTC AGGGGGCTGT	3540
166	TGGGATGGAA TAATTTTTT TTTTTTTTG AGACGGAGTC TAGCTCTGTC GCCCAGGCTG	3600
167	GAGTGCAGTG GCACCACCTT GGCTCACTGC AAGCTCTGCC TCCCGGGTTT ATGCCATTCT	3660
168	CATGTCTCAG CCTCCAGAGT AGCTGGACT ACAGGCGCCC GCCACCACGC CTGGCTAATT	3720
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170	TGACCTTCTG ATCCGCCTGC CTTGGCTTCC CAAAGTGTG GGATTACACG TGTGAGCCAC	3840
171	CATGCCGGC TGGGATGGAA TAAATTATC TTGTATGGGA GAAGGACATA CATTGGCA	3900
172	GGTCAAGGAC AGAATGTTAT GGACTAAACT GTGTCCCCA AAATTCATTT ATTAAAACCC	3960
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175	GAGCTCTCTC TCCACGCAGG CACCAAGGAA ACACCATAACA AACACACAGT GAGATGGCAG	4140
176	CCATCTGTTA GCCAGGAACA GATTCTCACC ATAAACTATG TTGGCACCTT GATCTAAC	4200
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179	GCTAAGACAA TGAAGGATGT GGTAAAACCTT TACGTCCCAA CCACATACCA AAGAGGCTGG	4380

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209 CATGTTGGCT CCTTTACTCT GCCCAAACCA CAACTCAAAC AAACAACGT AATATAATAA 4500
210 211 CATCCAATGA AGTTCTGACA TTTCTTCAC ATGAGTACAG TAATTCAATG CCAGAGAATT 4560
212 213 CATTTTATTT TGAAATCTAC ATGCCATATT CCAATTCTG TTGAAGATGC AATGGTTATA 4620
214 215 TTTATTCTTT TTAATATAGA TTTATCAGAC TGGGCGCGGT GGCTCATACC TGTAATCCTA 4680
216 217 GCATTTGAGA GGCTGAGGTG GGCATATCAC CTGAGGTCAG GAGTTTGAGA CCAGGCTGGC 4740
218 219 CAACATGGTG AAACCCTGTC TCTACTATAA ATATAAAAAT TAGCTGGGTG TGGTGGTGCA 4800
220 221 TGCCTGTAGT CCCAGTTACT AGGGAGGCTG AGGTAGAATT GCTTGAACCT GGGAGCAGGA 4860
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224 225 AAATAAAATAC ATAAAATAGA TTTATCAGTT TATCAATAAT ATAGTTTCT TTTCTAGGTG 4980
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246 247 TGGGAGACCT CTAGGTTTAG CATCCTCATC CACTCGCCCC AATTAAATAA GTCCTCCCCA 5640
248 249 GGGCCATTCA GGCAAGGGAG ATGAAAACCTT GCTCAAGAGT TGGAATCCAA CTGAAGCTAC 5700
250 25
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**SEQUENCE VERIFICATION REPORT
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Original Text